



# PrepsNG

## *Learning Center*

# AMBROSE ALLI UNIVERSITY

POST UTME PAST QUESTIONS FOR SOCIAL AND  
MANAGEMENT SCIENCE

# AAU POST UTME PAST QUESTIONS FOR FACULTY OF SOCIAL AND MANAGEMENT SCIENCES

## 2007/2008 AAU POST UME QUESTIONS

**Time Allowed: 10 minutes**

**Instruction: Answer ALL Questions**

1. A market situation where exists only one seller and many buyers is called what?

**Answer:** Monopoly is the only market structure where there is only one seller **but** many buyers e.g. PHCN in Nigeria

2. What is the full meaning of OMO?

**Answer:** OMO stands for Open Market Operation. It is one of the techniques used by the Apex Bank (Central Bank) to control commercial banks. In order to reduce the volume of money in circulation

3. A government by the people, for the people and of the people is called what?

**Answer:** Democracy

4. What is the full meaning of NAFDAC and who is the Director of NAFDAC?

**Answer:** NAFDAC stands for National Agency for Food and Drugs Administration and Control.

5. In a legislative process,, a bill is referred to as\_\_\_\_\_

**Answer:** In a legislative process, a bill is an accepted , motion in the floor of the House.

6. Who was the first Executive President of Nigeria?

**Answer:** The first Executive President of Nigeria was Alhaji Shehu Shagari (1979)

7. How many different committees of 4 can be selected from 10 people?

**Answer:** 210

8. If 5, x, y 40 are in Geometric progression, find x and y respectively.

**Answer:** x=10 and y =20

9. Calculate the compound interest on ₦20,000 for 2 year at 10% per annum.

**Answer:** ₦2, 200

10. The width of a rectangle is 6m shorter than its length. If the area of the rectangle is 216m<sup>2</sup>, find the perimeter of the rectangle.

**Answer:** 12m

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# 2009/2010 AAU POST UMTE QUESTIONS

**Time Allowed:** 10 Minutes

**Instruction:** Answer All Questions Choose the expression or word that best completes each sentence from question 1-5

- After their meeting the two Presidents issued a \_\_\_ calling for peace in the war-torn area.
  - Bulletin
  - Memorandum
  - Dialogue
  - Communiqué
- The wife insisted that she should also be a \_\_\_\_\_ to the family's joint saving account.
  - Signature
  - Payee
  - Guarantor
  - Signatory
- Don't be so \_\_\_\_\_ as to push your nose into people's affairs.
  - Concerned
  - Disrespectful
  - Inquisitive
  - Over bearing
- The meeting was held under the \_\_\_\_\_ of a social club.
  - Jurisdiction
  - Influence
  - Auspices
  - Agreement
- Cosmetics are sometimes used to cover the \_\_\_\_\_ of nature.
  - Deficits
  - Defects
  - Default
  - Demands
- Simplify  $\left(\frac{1}{3} + \frac{2}{5}\right) \div \left(\frac{7}{9} - \frac{2}{3}\right)$ 
  - $\frac{15}{2}$
  - $\frac{11}{12}$
  - $\frac{5}{6}$
  - $\frac{35}{51}$
- Find the tax on an income of ₦20,000, if no tax is paid at ₦10, 000 and tax is paid at

- ₦50 in ₦1,000 on the next ₦5,000 and ₦55 in ₦1,000 on the remainder A. ₦552
  - ₦525
  - ₦255
  - ₦520
  - ₦205
- The Prime factors of 2520 are
    - 2, 3, 7, 9
    - 2, 9, 5
    - 2, 9, 7
    - 2, 5, 9, 7
    - 2, 3, 5, 7
  - The sum of six angle of a nonagon is  $1100^\circ$ . If the other three angles are equal; determine the size of one of the equal angles
    - $50^\circ$
    - $60^\circ$
    - $70^\circ$
    - $80^\circ$
    - $90^\circ$
  - Find  $1 + \tan$  , if  $\cos = \frac{x}{y}$ 
    - $\frac{x^2}{y^2}$
    - $\frac{y^2}{x^2}$
    - $\frac{y^2}{2}$
    - $x^2 + \frac{y^2}{y^2} - x^2$
    - $2x^2 + \frac{y^2}{x^2} + y^2$
  - Onosetale deposited ₦150.00 in the bank. At the end of 5 years, the simple interest on the principal was ₦55.00. At what rate per annum was the interest paid?
    - $5\frac{1}{3}\%$
    - $3\frac{1}{2}\%$
    - $7\frac{1}{3}\%$
    - 5%
    - $1\frac{1}{2}\%$

12. Simplify  $X = \frac{\frac{1}{\sqrt[3]{27}} \times \frac{1}{\sqrt{9}}}{81^{-3/4} \times (243)^{3/5}}$

A.  $\frac{2}{5}$

B.  $\frac{2}{3}$

C.  $\frac{1}{9}$

D.  $\frac{1}{4}$

13. Find t if  $\log 4 + \log 7 - \log t = 1$

A. 29

B. 7

C. 12

D.  $\frac{14}{5}$

E. 10

14. A number x selected at random from 41 to 56. What is the probability that the number selected is a multiple of 9?

A.  $\frac{1}{8}$

B.  $\frac{2}{15}$

C.  $\frac{1}{16}$

D.  $\frac{5}{8}$

E.  $\frac{7}{8}$

15. The mean of ten positive numbers is

16. When another number is added, the mean becomes 18. What is the value of the eleventh number?

A. 28

B. 38

C. 18

D. 16

E. 3

16. The curve surface area of a cone with circular base diameter 10cm and height 12cm is ?

A.  $65 \text{ cm}^2$

B.  $120 \text{ cm}^2$

C.  $25 \text{ cm}^2$

D.  $56 \text{ cm}^2$

17. For an arithmetic sequence, the first term is 2 and the common difference is 3. What is the sum of the first eleven terms?

A. 157

B. 197

C. 200

D. 187

E. 150

18. If  $34_x = 10011_z$ . What is the value of 3?

A. 7

B. 8

C. 5

D. 6

E. 4

19. Evaluate the value of x if  $27^x = 81^{3/4}$

A. 2

B. 1

C. 0

D. 3

E. -1

20. Calculate the standard deviation of the following data in the table below

Class	1-3	4-6	7-9
Frequency	5	8	5

A. 1.4

B. 12

C. 3.0

D. 2.23

E. 2.0

21. An upward movement along the same supply curve results in

A. An increase in supply

B. An increase in quantity supply

C. A decrease in quantity supply

D. A decrease in price

22. To protect farmers during a bumper harvest, the government usually

A. Set a minimum price

B. Set a maximum price

C. Release products from the buffer stock

D. Sell the excess to consumers

23. Which of these producers is closest to being a monopolist?

A. A wheat farmer

B. A baker

C. A large chain store

D. An automobile plant

24. The output approach to national income is based on this computation of

A. Final output

- B. Value added
- C. Factor cost
- D. Profits earned

25. An example of infection into the circular flow income is

- A. Experts
- B. Taxes
- C. Imports
- D. Pensions

26. The high rate of inflation in Nigeria can be attributed to

- A. Increasing cost of production
- B. Decreasing cost of production
- C. High capacity utilization
- D. The appreciation of the naira

27. The effects of instability in farmer's income in Nigeria is due to

- A. Lack of infrastructure facilities
- B. Rural urban migration
- C. Low level of technology
- D. Inadequate supply of fertilizer

28. A major impediment to the development of agriculture in Niger is

- A. Land use system
- B. Low income farmers
- C. Limited research seedlings
- D. Inadequate supply of farm inputs

29. An example of an indirect tax is

- A. Profit tax
- B. Sales Tax
- C. Poll tax
- D. capital gains tax

30. The activities in the oil and industry are classified into

- A. Exploration and transportation
- B. Discovered and extraction
- C. Onshore and off-shore
- D. Upstream and downstream

31. An inverse relationship between interest rate and demand for money means?

- A. An interest rises, demand for money rises
- B. As interest rises, demand for money falls
- C. As interest rises, demand for money remains constant
- D. As interest rate rises, there is zero demand for money

32. The theoretical relationship between money supply and prices is weakened by change in

- A. Money supply
- B. Interest rate
- C. Velocity of money
- D. General Price level

33. The cost of kerosene per litre increases from ₦60 to ₦85. What is the percentage rate of increase?

- A. 42%
- B. 41%
- C. 40%
- D. 35%

34. Rule of law emphasizes

- A. Military power of the state
- B. The power of the president
- C. Supremacy of law
- D. Election rigging

35. Fundamental Human Rights

- A. Are those rights given to us by our parents?
- B. Rights from our various religions
- C. Those rights permitted by the police
- D. Are rights that are basic and essential to human existence that every citizen must enjoy?

36. Constitution can be defined as

- A. Proclamation by the governor
- B. A collection of norms or standard with which a country is governed
- C. Law by the road safety
- D. Village laws

37. A written constitution that which

- A. Is well printed
- B. Can be found in one document
- C. Is imported
- D. Is given to us by our fore fathers

38. Constitution Is said to be flexible when

- A. It can easily be broken
- B. It can be amended without lengthy or difficult process
- C. It is untouchable
- D. It can easily be passed into law

39. A unitary system of government exists when

- A. There is no government
- B. Is only one house of assembly?
- C. The central government is supreme over other levels of government

- D. There are two legislatures
40. The principle of checks and balance
- A. Prevents any organ of government from becoming too powerful
  - B. Allows for competition
  - C. Allows for fusion of power
  - D. One organ of government can assist the other
41. The Oyo Empire is believed to have been founded by
- A. Alafin
  - B. Oyomesi
  - C. Alao Akala
  - D. Organ gam
42. The succession to the Benin throne is by
- A. Selection
  - B. Selection by gods
  - C. Primogeniture
  - D. Appointed
43. Some of the features of the Igbo precolonial system were
- A. Authoritarian and despotism
  - B. Dictatorial callousness
  - C. Democratic and republican
  - D. Centralization of power
44. The pre-colonial Hausa-Fulani political system was
- A. Highly centralized
  - B. Decentralized
  - C. Republican
  - D. The Emir had no religious functions
45. Which of the territories were British colonized territories?
- A. Libya and Ethiopia
  - B. Gambia and Uganda
  - C. Nigeria and Ghana
  - D. Gold Coast and Ivory Coast
46. Examples of countries practicing unitary system of government include
- A. Nigeria and Canada
  - B. Italy and Sweden
  - C. USA and Australia
  - D. India and France
47. Who introduced the indirect rule system in British West Africa?
- A. Dr. Azikiwe
  - B. Donald Cameroon
  - C. Sir Frederick Lugard

- D. Chief Obafemi Awolowo
48. The first military coup in Nigeria was in
- A. 1960
  - B. 1963
  - C. 1999
  - D. 1966
49. Which of the following countries has a unicameral legislature?
- A. Nigeria
  - B. Ghana
  - C. Gambia
  - D. Mali

## ANSWERS FOR 2009/2010 QUESTIONS

1. D 2. D 3. B 4. C 5. B 6. A 7. B 8. E 9. A  
10. B 11. C 12. C 13. C 14. B 15. B 16. A  
17. D 18. C 19. B 20. D 21. A 22. A 23. D  
24. A 25. A 26. A 27. A 28. D 29. B 30. D  
31. B 32. B 33. A 34. C 35. D 36. B 37. B  
38. B 39. C 40. A 41. A 42. C 43. C 44. A  
45. C 46. B 47. C 48. D 49. B

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# 2010/2011 AAU POST UMTE QUESTIONS

**TIME ALLOWED:** 60 MINUTES

**INSTRUCTION:** Answer All Questions

**In each question 1 and 2, choose from the ion the word or phrase that is nearest in meaning to the word underlined.**

1. My sister is known by everybody to be scurrilous

- A. Pleasant
- B. Vituperative
- C. Active
- D. Inactive

2. The Speech was delivered with great trepidation

- A. Fear
- B. Dexterity
- C. Power
- D. Creativity

**In each question 3 and 4 select from the option A - D to correct meaning of the idiom underlined.**

3. The Manager behave as if he had bats in the belfry.

- A. He was pleasant
- B. he had strange ideas
- C. he was speechless
- D. He was angry

4. I learnt Agnes was off colour this morning she was not in class

- A. Busy somewhere else
- B. Not able to wake up early enough
- C. Not in her right mind
- D. Not in good health

**Choose from the option A-D the correct spelling of the word**

- 5. A. conterfit
- B. conterfiet
- C. counterfeit
- D. counterfeet

6. Find the value of such that  $t^2 + kt + \frac{25}{4}$  is a perfect square

- A. 5
- B.  $\frac{5}{2}$
- C.  $\frac{5}{4}$

D.  $\frac{1}{5}$

7. If the mean of the numbers 0,  $x + 2$ ,  $3x + 6$  and  $4x + 8$  is 5, find the value of x

- A. 4
- B. 3
- C. 4
- D.  $\frac{1}{2}$

8. Find the probability of selecting a prime number from the integers 1 and 10 inclusive

- A.  $\frac{3}{10}$
- B.  $\frac{2}{5}$
- C.  $\frac{2}{10}$
- D.  $\frac{4}{9}$

9. A card is picked at random from a pack of 52 playing cards. What is the probability that it is a black five.

- A.  $\frac{1}{2}$
- B.  $\frac{1}{26}$
- C.  $\frac{1}{13}$
- D.  $\frac{1}{52}$

10. Five people are to be arranged in a row for a group photograph. How many arrangements are there if married couples in a group insist on sitting next to each other

- A. 24
- B. 12
- C. 4
- D. 14

11. Find the sum of the first 21 terms of the progression -10, -8, -6 .....

- A. 180
- B. 190
- C. 200
- D. 210

12. The fraction  $\frac{2x^3-3x-1}{Mx-6}$  is undefined at  $x=4$ . Find the value of M

- A. 7.5
- B. 3.6
- C. 3.0
- D. 1.5

13. If  $P = \sqrt{QR(1 + \frac{3t}{r})}$  make R the subject of the formula

A.  $R = \frac{3Qt}{P^2 - Q}$

B.  $R = \frac{R^2 - 3t}{Q + 1}$

C.  $R = \frac{P^2 - 3t}{Q - 1}$

D.  $R = \frac{P^2 - 3Qt}{Q}$

14. What is the price  $4\frac{1}{2}$  of stock investment if an investment of ₦200 produces an income of ₦10?

- A. 75
- B. 80
- C. 44
- D. 90

15. 4 members of a school first eleven cricket team are also member of the first fourteen Rugby team. How many boys play for at least one of the two teams?

- A. 25
- B. 21
- C. 17
- D. 3

16. A dealer sells an article costing ₦5 at a gain of  $12\frac{1}{2}\%$ . Find the selling price

- A. ₦5.63
- B. ₦6.45
- C. ₦4.25
- D. ₦3.00

17. Given that  $\sqrt{3} - \frac{1}{\sqrt{3}} = P\sqrt{3}$  find the value of P

- A.  $\frac{2}{3}$
- B.  $\frac{1}{3}$
- C.  $\frac{4}{3}$
- D. 1

18. Given that  $\log 2 = 0.69$ ,  $\log 3 = 1.10$  and  $\log 7 = 1.90$ . All to a fixed base, find  $\log 10.5$  to the same base, without using table

- A. 1.03
- B. 2.31
- C. 3.69
- D. 10.5
- E. 1.69

19. Find x, if  $\log_9 X = 1.5$

- A. 72.0
- B. 27.0

- C. 176
- D. 24.5

20. Convert 241 in base 5 to base 8

- A. 71
- B. 107
- C. 176
- D. 241

21. Who defined economics as the study of mankind in the ordinary business of life?

- A. Alfred Marshal
- B. David Richards
- C. Adams Smith
- D. Professor Lionel Robbins

22. An economic good is one which

- A. Is economically good
- B. Is scarce
- C. Yields utility and commands a price
- D. Is efficiently produced

23. Which of the following required the use of indirect advertising?

- A. Baby milk
- B. Detergent
- C. Textbook
- D. Soccer books

24. The Malthusian theory of population does not concern itself with

- A. Negative checks of population growth
- B. Positive checks of population growth
- C. Development and growth of man powers
- D. Growth of population in geometric progression

25. The most liquid asset of a Bank is \_\_\_\_\_.

- A. Money at call
- B. Bank draft
- C. Money order
- D. Cash

26. Which of the following market structure are imperfect in competition?

- I. Monopoly
- II. Duopoly
- III. Oligarchy

- A. I, II and III
- B. I and III only
- C. I and II only
- D. II and III only

27. Opportunity cost is the term which describes



- A. The initial cost of setting up a business
- B. The cost of one product in terms of the forgone production of other
- C. Monetary equivalent of the utility of a commodity

28. A parcel of shoe valued at 2,000 was involved at 200 only which the following would be used by the seller to correct this error

- A. An invoice of 200
- B. A credit note of 1500
- C. A debit note of 1,800
- D. A debit note for 2,000

29. Price can be defined as

- A. Rate of exchange
- B. Cost of production
- C. Medium of exchange
- D. Standard of living

30. Which of the following countries is not a member of the Organization of Petroleum Exporting Countries (OPEC)

- A. Mexico
- B. Nigeria
- C. Saudi Arabia

31. What do you understand by the "Terms of Trade"?

- A. The direction of foreign trade
- B. The quality of imports
- C. The rate at which exports exchange for import

32. A tax that takes on increasing fraction of income as income goes down is known as

- A. restrictive tax
- B. Regressive tax
- C. propositional tax
- D. Progressive tax

33. Under the Nigeria structural adjustment program, market for agriculture commodities in Nigeria has been placed under \_\_\_\_\_.

- A. The marketing Board
- B. Private Investors and Individuals
- C. Then River Basin Authority
- D. The Commodity Board

34. The mean handicap of Sole Proprietorship is \_\_\_\_\_.

- A. Inadequate capital
- B. Lack of technical know how
- C. High profit margin

D. Low profit margin

35. A bar graph where a simpler bar carries more than one information in a given period is called?

- A. Simple bar graph
- B. Multiple bar graphs
- C. Histogram
- D. compound bar graph

36. In the Hausa Pre-colonial political system, sovereignty was located in the

- A. Quadi
- B. Emir
- C. Waziri
- D. Galadima

37. One of the greatest advocates of Socialism was

- A. Baron De Montesquieu
- B. Karl Marx
- C. A. V. Dicey
- D. Adam Smith

38. In which of the political system is the Rule of Law likely to be enhanced

- A. Military
- B. Parliamentary
- C. Totalitarianism
- D. Monarchical

39. The director of Public Prosecutors trows no longer subject to direction or control from wry person or authority under the

- A. Republican Constitution
- B. Unitary Constitution
- C. Dominion Constitution
- D. Presidential Constitution

40. Which Constitution is cruised as having laid the foundation of tribalism in politics?

- A. Macpherson Constitution
- B. Richard's Constitution
- C. Littleton Constitution
- D. Boundillion

41. The idea of non-alignment is generally credited to

- A. Jawahora Nebru
- B. Chairman Mao Ise Tung
- C. Kwame Nkrumah
- D. Nnamdi Azikiwe

42. The Term 'acephalous" is used to describe the traditional political system of the

- A. Bini

- B. Ibibio
- C. Igbo
- D. Kalahari

43. Orthodox Monarchical System is practiced in

- A. Nigeria
- B. Kuwait
- C. Iran
- D. England

44. The system of Government whereby the central authority legislates on all matters is

- A. Presidential
- B. Con-federal
- C. Military
- D. Federal

45. According to the land use degree of 1978, the ownership of land in Nigeria was rested in the

- A. State Government
- B. Federal Government
- C. Local Government

46. Which of the following countries operates a system with Bicameral Legislature?

- A. Cuba
- B. Ghana
- C. Nigeria
- D. North Korea

47. The system of Government in which elders rule is known as

- A. Gerontocracy
- B. Democracy
- C. Communism
- D. Oligarchy

48. The first Executive President of Nigeria is

- A. Alhaji Musa Yar'Adua
- B. Goodluck Ebele Jonathan
- C. Abubakar Tafawa Balewa
- D. Alhaji Shehu Shagari

49. The electorate can remove an elected official by an act of

- A. Consensus
- B. Plebiscite
- C. Recall
- D. Impeachment

50. The principle of separation of powers enables each arm of Government to

- A. Carry out its constitutional functions

- B. Probe one another
- C. Moderate the scope of the constitution
- D. Overlap the function of the other 85.

### ANSWERS TO 2010/2011 QUESTIONS

1. B 2. A 3. D 4. D 5. C 6. A 7. D 8. B 9. B  
10. A 11. D 12. D 13. D 14.- 15. C 16. A  
17. A 18. B 19. B 20. B 21. A 22. C 23. C  
24. C 25. D 26. A 27. B 28. C 29. A 30. A  
31. C 32. B 33. A 34. A 35. D 36. B 37. B  
38. B 39. A 40. C 41. C 42. C 43. D 44. C  
45. B 46. C 47. A 48. D 49. C 50. A

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# 2011/2012 AAU POST UMTE QUESTIONS

## ANSWER ALL QUESTIONS

TIME ALLOWED: 1 HOUR

**Instruction:** In each of question 1 and 2, choose the word that has the same consonant as the one represented by the letter(s) underlined.

1. Church  
 A. Feature  
 B. Chauffer  
 C. Ocean  
 D. Machine

2. Thank  
 A. Though  
 B. Thought  
 C. Thames  
 D. Thomas

**For question 3-5, choose the option that best complete the sentence.**

3. The officer was compelled to the suspect's car

- A. Seize  
 B. Cease  
 C. Seize  
 D. Sease

4. The trader complained that he \_\_\_\_\_robbed.

- A. Has been  
 B. Had been  
 C. Was being  
 D. is being

5. Would like to \_\_\_\_\_My father to Lagos?

- A. Accompany  
 B. Follow  
 C. Escort  
 D. Join

**In each of question 6-50, choose the inappropriate answers from the option given below.**

6. An arithmetic progression has first term as  $11^{\text{th}}$  and fourth term 32. The sum of the first nine term is?

- A. 351  
 B. 531  
 C. 135  
 D. 315

E. 153

7. A regular hexagon is constructed inside a circle of diameter 12 cm. The area of the hexagon is

- A.  $36 \text{ cm}^2$   
 B.  $36\pi \text{ cm}^2$   
 C.  $54 \pi \text{ cm}^2$   
 D.  $\frac{54}{3} \pi \text{ cm}^2$   
 E.  $\frac{54}{\pi} \text{ cm}^2$

8. The smallest number such that when it is divided by 8 has a remainder of 6 and when it divided by 9 has a remainder of 7 is

- A. 387  
 B. 493  
 C. 502  
 D. 441  
 E. 634

9. If the value of n- is taken to be  $\frac{22}{7}$ , the area of a semi-circle of diameter 42cm is

- A.  $554 \text{ m}^2$   
 B.  $1386 \text{ m}^2$   
 C.  $132 \text{ m}^2$   
 D.  $264 \text{ m}^2$   
 E.  $693 \text{ m}^2$

10. In base ten, the number 101101 (base2) equals

- A. 15  
 B. 4  
 C. 45  
 D. 32  
 E. 90

11. The annual profits of a transport business were divided between the two partners A and B in ratio 3:5. If B receives ₦3000 more than A, the total profit was.

- A. ₦5,000  
 B. ₦1,800  
 C. ₦12,000  
 D. ₦24,000  
 E. ₦8,000

12. X is directly proportional to inversely proportional to Z. if  $x=9$  when  $y=24$  and  $z=8$ , what is the value of x when  $y=5$  and  $z = 6$ ?

- A.  $\frac{5}{6}$   
 B. 11  
 C.  $\frac{33}{5}$   
 D.  $2 \frac{1}{2}$

E.  $11/5$

13. Simplify  $\frac{5^x \times 25^{x-1}}{125^{x-1}}$

- A.  $5^1$   
 B.  $5^{x+2}$   
 C.  $5^{-5}$   
 D.  $5^{x+1}$   
 E.  $5^3$

14. A ladder resting on a vertical wall makes angle whose tangent is 2.4 with the ground. If the distance between the foot of the ladder and the wall is 50cm, what is the length of the ladder?

- A. 1m  
 B. 1.1m  
 C. 1.2m  
 D. 9m  
 E. 1.3m

15. On each market day Mrs. Bassey walks to the market from her home at a steady speed. This journey normally takes her 2 hours to complete. She finds, however, that by increasing her usual speed by 1 km/hr, she can save 20 minutes. Find her usual speed in km/hr.

- A.  $12/3$  km/hr  
 B. 2 km/hr  
 C. 5 km/hr  
 D. 6km/hr  
 E. 10km/hr

16. Solve the simultaneous equation

$$2x + 5y = 11$$

$$7x + 4y = 2$$

- A.  $x = 8, y = 1$   
 B.  $x = -2, y = -3$   
 C.  $x = 2, y = -3$   
 D.  $x = -34/27, y = 73/27$

17. A cylinder of height  $h$  and radius  $r$  is open at one end. Its surface area is

- A.  $2rh$   
 B.  $2\pi r^2 h$   
 C.  $2\pi rh + 2rh^2$   
 D.  $Rh + r^2\pi$   
 E.  $2\pi rh + \pi r^2$

18. If  $y = x^2 - 2x - 3$ , find the least values of  $y$  and the corresponding of  $x$ .

- A.  $x = 3, y = -3$   
 B.  $x = 1, y = 2$   
 C.  $x = -4, y = 1$   
 D.  $x = 1, y = -4$

19. A father is now three times as old as his son. Twelve years ago, he was six times as old as his son. What is the present ages of the son and the father

- A. 20 & 45  
 B. 100 & 150  
 C. 45 & 65  
 D. 35 & 75  
 E. 20 & 60

20. If  $h\sqrt{3} = \sqrt[3]{9}$  then the value of  $x$  is

- A.  $3/4$   
 B.  $4/3$   
 C.  $1/3$   
 D.  $2/3$   
 E.  $1/2$

21. A none monarch state can be best described as a

- A. Confederation  
 B. Republic  
 C. Federation  
 D. national

22. The major aim of colonial rule in Nigeria was to

- A. Spread Christianity  
 B. Stop slave trade and slavery  
 C. Stop inter ethnic wars  
 D. Obtain cheap materials and secure ready market

23. The chairman of the United Nation (UN) Security Council emerges through

- A. Rotation  
 B. Election  
 C. Consensus  
 D. Selection

24. One of the most essential characteristics of a state is

- A. Sovereignty  
 B. Rule of law  
 C. Legitimacy  
 D. Civil service

25. One of the greatest advocates of socialism was

- A. Military  
 B. Karl Marx  
 C. A.V Dicey  
 D. Adams Smith

26. The type of government which an individual with absolute power is called?

- A. Theocracy  
 B. Autocracy

- C. Oligarchy
- D. Plutocracy

27. An appropriate bill is

- A. State boundary adjustment bill
- B. State creation bill
- C. A private member bill
- D. A momentary bill

28. In a legislative process, a bill is

- A. A motion accepted for debate
- B. A motion rejected for debate
- C. Proposal before a legislature
- D. Law proposed by the legislature

29. In which of the political system is the Rule of law likely to be enhanced

- A. Military
- B. parliamentary
- C. Totalitarian
- D. Monarchical

30. The process of distribution of power among authorities' district from the central government is known as

- A. Centralization
- B. Delegation
- C. Deconcentration
- D. Separation

31. In the Hausa pre-colonial political system, sovereignty was located in the

- A. Quadi
- B. Emir
- C. Waziri
- D. Galadima

32. The supreme policy making organ of the organization of African Unity (OAU) is

- A. Council of ministers
- B. Assembly of Head of state and government
- C. Defence commission
- D. Security council

33. "Check and balance" was a feature of pre-colonial administration of the

- A. Hausa
- B. Yoruba
- C. Igbo
- D. Fulani

34. Which of the following factors limits universal adult suffrage?

- A. Wealth
- B. Age
- C. Education

D. Heredity

35. The independence of the judiciary is meant to

- A. Protect the right of judges
- B. Safeguard enact law at will
- C. Enable judges enact laws at will
- D. Allow judges to participate in partisan politics

36. The three principal economic units in any system are

- A. Trade, industry and banking
- B. Workers, consumers and shareholders
- C. Households, firms and government
- D. Companies, industries and

37. The satisfaction derived from the use of a commodity is its

- A. Demand
- B. Elasticity
- C. Wealth
- D. Utility

38. The Malthusian theory of population does not concern itself with

- A. Growth of food production in arithmetic progression
- B. Growth of population in a geometric progression
- C. Positive check to population growth
- D. Growth of food production and population growth

39. The most important quality of money is that must be

- A. Relatively scarce
- B. Generally accepted
- C. Portable
- D. Durable

40. A foreign exchange deals with in

- A. Treasury bills
- B. Currencies
- C. Government bonds
- D. Commodities

41. The study of economics enables individuals to

- A. change jobs
- B. Evade taxes
- C. Accumulate huge wealth
- D. Make rational decision

42. Which of the following tools of economic analysis is used when data contains more than one category.

- A. Bar chart
- B. Component charts
- C. Graph
- D. Symbolical statement

43. Middlemen in an economy perform the function of

- A. Distribution
- B. Exchange
- C. Boarding
- D. Protection

45. Choice is necessitated by

- A. Demand and supply
- B. Cost of production
- C. Production possibility curve
- D. Scarcity of resources

46. A type of unemployment which occurs due to technological progress is called

- A. Frictional unemployment
- B. Residual unemployment
- C. Structural unemployment
- D. Mass unemployment

47. The type of demand exists between torchlight and battery is

- A. Competitive demand
- B. Complementary demand
- C. Composite demand
- E. Independence demand

48. Who among the following is an intermediary between producer and retailer

- A. Agent
- B. Wholesaler
- C. Consumer
- D. Distributors

49. Labour can be efficient where there are

- A. Adequate tools to work with
- B. High level of employment
- C. Limited vacancies
- E. Government restriction

50. Which of the following sectors is most capital intensive?

- A. Insurance
- B. Petroleum
- C. Commerce
- D. Tourism

## ANSWERS TO 2011/2012 AAU QUESTIONS

1. A 2. A 3. B 4. B 5. A 6. A 7. – 8. C 9. E  
10. C 11. C 12. D 13. – 14. E 15. C 16. D  
17. E 18. D 19. E 20. – 21. C 22. D 23. C  
24. A 25. B 26. B 27. D 28. C 29. B 30. B  
31. B 32. A 33. B 34. B 35. B 36. C 37. D  
38. C 39. B 40. B 41. D 42. A 43. A 45. D  
46. C 47. B 48. B 49. A 50. B

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**2012/2013 AAU POST UMTE QUESTIONS [SESSION 1]****ANSWER ALL QUESTIONS****TIME ALLOWED:** 1 HOUR

**INSTRUCTION:** Choose the word or phrase from option A-D which has the nearest meaning to the underline word or words in each sentence.

1. The igneous scheme of the robber broke down because of the efficiency of the Police Officer.

- A. suspicious
- B. ambitious
- C. deceitful
- D. clever

2. This task is herculean.

- A. Irregular
- B. related to Hercules
- C. Stimulating
- D. demanding

3. Frank, I have had enough of your impudence.

- A. Politeness
- B. incivility
- C. Arrogance
- D. boldness

4. Do you know one of the most astounding events of my life?

- A. Special
- B. amazing
- C. Serious
- D. outstanding

5. Every programming language and software package \_\_\_\_\_ limitation of.

- A. Have its
- B. have their
- C. Has its
- D. has their

6. A major problem associated with the Nigerian federalism is:

- A. ethnic conflict
- B. environmental pollution
- C. boundary dispute
- D. fiscal allocation

7. The permanent membership of the UN Security Council is

- A. ten
- B. twenty

- C. five
- D. eleven

8. Privatization and commercialization programmes in Nigeria have

- A. Increased public utilities
- B. de-emphasized government ownership
- C. Reduced government revenue
- D. Encourage corruption

9. A presidential veto of a bill can be overturned by

- A. The Supreme Court
- B. Two-third majority of the National Assembly
- C. The National Council of State
- D. Four-fifths majority of the National Assembly

10. The Primary objective of all political parties is to

- A. Promote the general interest of members of the public
- B. Eradicate corruption
- C. Control the government
- D. Eradicate the electorate

11. Under Nigeria's Independence Constitution the Head of Government was the

- A. Governor-general
- B. President
- C. The Premier
- D. The Prime Minister

12. The First Federal Constitution in Nigeria was the

- A. Clifford Constitution
- B. Lyttleton Constitution
- C. Richard Constitution
- D. Independence Constitution

13. The First Political party in Nigeria

- A. National Council of Nigeria Citizens
- B. Nigeria National Democratic Party
- C. Action Group
- D. Northern People

14. Another word for red-tapism is \_\_\_\_\_.

- A. Democracy
- B. Autocracy
- C. Idiosyncrasy
- D. Bureaucracy

15. Benin Empire is remembered for its \_\_\_\_\_ rules, especially Obo

- A. Kunta Kanta
- B. Jeremy Jimoh
- C. Ewea the great
- D. Ewuare the great

16. Which of the following countries is not a member of ECOWAS

- A. Ghana
- B. Sierra Leone
- C. Cameroon
- b. Nigeria

17. Which of the following is indigenous to any of the Nigerian communities \_\_\_\_\_.

- A. fante
- B. ashante
- C. nembe
- D. temue

18. The political arrangement which emphasizes community feeling and togetherness is \_\_\_\_\_.

- A. Socialism
- B. Communalism
- C. Constitutionalism
- D. Communism

19. The public complaint commission helps to promote all the following except \_\_\_\_\_.

- A. democracy
- B. the rule of law
- C. military dictatorship
- D. fundamental human rights

20. The founder and editor of the West African Pilot was \_\_\_\_\_

- A. Herbert Macaulay
- B. Chief Oba Femi Awolowo
- C. Nnamdi Azikiwe
- D. Ernest Okoli

21. Which of the following factors affect the size of National income \_\_\_\_\_

- A. Size of the active population
- B. Taste of the consumers
- C. Number of registered trade union
- D. Credit worthiness of the neighbouring countries

22. The West African clearing house was established to

- A. Finance development project in Africa
- B. Enhance financial transactions among members countries

C. Provide technical assistance to member countries

D. Stabilize price in developing countries

23. Banks create more money by

- A. Giving drafts to customers
- B. Printing more money
- C. Lending out deposits to borrowers
- D. Issuing cheques

24. Which of the following is used to measure inflation

- A. open market operation
- B. cash-deposit ration
- C. price index
- D. multiplier

25. Matus major contention is that \_\_\_\_\_.

- A. Population increased in arithmetic progression while food production increased in geometric progression.
- B. Population increase in geometric progression while food production increased in arithmetic progression.
- C. Population and good growth rate will in future be at bar
- D. Nations have to get enough manpower to cultivate available food in the land.

26. The quantity theory of money state that an increase in the quantity of money would bring about

- A. a geometrical rise in price
- B. an unequal rise in prices
- C. a proportionate rise in price
- D. an absolute rise in price

27. If the fixed cost of a firm is 800 naira and its variable cost is ₦2.700 while its total output is 100 units; what is the overage cost of the firm.

- A. ₦25
- B. ₦35
- C. ₦45
- D. ₦50

28. Buying and selling of shares is a function performed mostly by the

- A. Insurance Company
- B. Stock exchange
- C. merchant banks
- D. discount houses

29. A bag contains 5 black, 4 white and x red marbles. If the probability of picking a red marble is  $\frac{2}{5}$  find the value of x.

- A. 6

- B. 10  
C. 4  
D. 8

30. The cost of renovating a 6m square room is ₦540. What is the cost of renovating a 9m square room?

- A. ₦720  
B. ₦800  
C. ₦1,600  
D. ₦1,215

31. If  $y=5-x$ , find the values of  $y$  when  $x=1,2,3,4,5$ .

- A.  $y=4,3,2,1,0$   
B.  $y=2,3,1,7,0$   
C.  $y=5,6,6,1,0$   
D.  $y=2,4,3,0,9$

32. Simplify  $1 - (2^{1/3} \times 1x) - 3^{3/5}$  Incorrect question

- A.  $-231/60$   
B.  $-27/17$   
C.  $-115/80$   
D.  $-111/15$

33. A woman buys 270 oranges for ₦1,800.00 and sells at 5 for ₦40.00. What is her profit?

- A. ₦630.00  
B. ₦360.00  
C. ₦1620.00  
D. ₦2160.00

34. Convert 241 in base 5 to base 8

- A.  $71_8$   
B.  $107_8$   
C.  $176_8$   
D.  $241_8$

35. Find the least length of a rod which can be cut exactly into equal strips each of either 40cm or 48cm length

- A. 120cm  
B. 240cm  
C. 360cm  
D. 480cm

36. A rectangular lawn has an area of 1815 square yards if its length is 50 meters, find its width in meters given 1 meter equal 11 yards

- A. 39.93  
B. 35.00  
C. 33.00  
D. 30.

37. Peter's weekly wages are ₦20.00 for the first 20 weeks and ₦36.00 for the next 24 weeks. Find his average weekly wages for the remaining 8 weeks of the year. If his average weekly wage for the whole year is ₦30.00

- A. ₦37.00  
B. ₦35.00  
C. ₦30.00  
D. ₦25.00

38. Evaluate  $\frac{1}{10} \times \frac{2}{3} - \frac{3}{4} \left( \frac{1}{2} - \frac{3}{5} - \frac{3}{4} \right)$

- A.  $2/25$   
B.  $10/60$   
C.  $7/12$   
D.  $19/35$

39. Find the remainder when

$33x^3 - 5x^2 - 11x + 4$  is divided by  $x - 3$

- A. 4  
B. 1  
C. -1  
D. -4

10. 3 teachers shared a packet of chalk, the first teacher got  $2/5$  of the chalk, the second teacher received  $2/15$  of the remainder, what fraction did the 3<sup>rd</sup> teacher receive.

- A.  $11/25$   
B.  $12/25$   
C.  $13/15$   
D.  $8/15$

41. Factorize completely  $ac - 2bc - a^2 + 4b^2$

- A.  $(a-2b)(c+a-2b)$   
B.  $(a-2b)(c-a-21)$   
C.  $(a-2b)(c+a+2b)$   
D.  $(a-2b)(c-a+2b)$

42. A man invests a sum of money at 4% per annum simple interest after 3 years, the principal amounts to ₦7,000.00. Find the sum invested.

- A. ₦7,840.00  
B. ₦6,250.00  
C. ₦6,160.00  
D. ₦5,833.33

43. Reduce to one decimal place  $0.2240 - 0.0306$

- A. 0.8  
B. 1.8  
C. 8.0  
D. 8.1

**ANSWERS TO 2012/2013  
AAU QUESTIONS  
[SESSION 1]**

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1. C 2. D 3. B 4. A 5. A 6. D 7. C 8. A 9. B  
10. A 11. C 12. B 13. B 14. D 15. C 16. C  
17. C 18. B 19. C 20. C 21. A 22. B 23. C  
24. C 25. B 26. C 27. B 28. B 29. A 30. \*  
31. A 32. \* 33. B 34. B 35. B 36. C 37. A  
38. \* 39. \* 40. C 41. B 42. B 43. \*\*

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**2012/2013 AAU POST UMTE QUESTIONS [SESSION 2]****ANSWER ALL QUESTION****TIME ALLOWED:** 1 HOUR

***In the following question, fill the gap with the appropriate option from the list.***

1. A programme of good exercise may help a person fight \_\_\_\_\_ cold
- A. out  
B. at  
C. with  
D. off

**Choose the option opposite in meaning to the word or phrase in italics**

2. Paul's *tremendous* effects have yielded results
- A. absolute  
B. insignificant  
C. unimaginable  
D. prohibitive
3. He accepted a *mundane* task without hesitation
- A. great  
B. lowly  
C. menial  
D. moderate

**In question 4-5, choose the option which has the nearest in meaning to the underlined word or words in each sentence**

4. Rich citizens are often niggardly in their ways.
- A. beggarly  
B. sordid  
C. miserly  
D. pompous
5. It is claimed that there is an extinct volcano near Panshin.
- A. extinguished  
B. inactive  
C. dead  
D. disused
6. Private ownership of the mean of production is central to \_\_\_\_\_.
- A. communism  
B. capitalism

- C. feudalism  
D. totalitarianism

7. One of the most essential characteristics of a state.
- A. sovereignty  
B. the rule of law  
C. legitimacy  
D. the civil services
8. The French policy of assimilation
- A. was a device to transfer technology to Africa  
B. was the same in theory as the British policy of indirect rule  
C. was aimed at converting Africans to French mend enable the French to stay in Africa
9. Nigeria became a federation of nineteen state in
- A. 1914  
B. 1976  
C. 1967  
D. 1978
10. The right of all eligible citizens to vote and be voted for is referred to as?
- A. gender equality  
B. political mandate  
C. restricted franchise  
D. universal suffrage
11. Which of the following had a centralized administration in precolonial Nigeria?
- A. the Igbos  
B. the Tivs  
C. the Ibibios  
D. the Yorubas
12. The "NOK" culture is about \_\_\_\_\_.
- A. iron technology  
B. radio/media technology  
C. motor/vehicle technology  
D. textile technology
13. Slavery/Slave trade ended in about \_\_\_\_\_.
- A. 1899  
B. 1769  
C. 1800  
D. 1788

14. The Berlin Conference was held between

- A. 1880-1882
- B. 1882-1883
- C. 1883-1884
- D. 1884-1885

22. The introduction of division of labour in a firm will lead to

- A. a fall in output
- B. a decline in efficiency of labour
- C. an increase in output
- D. the separation of ownership from management

23. The major role of NDIC is to

- A. ensure adequate capitalization of insurance companies
- B. accept customers deposits
- C. insure bank deposit
- D. regulates bank deposit.

24. The Revenue Mobilization, Allocation and Fiscal Commission in Nigeria has the primary responsibility for

- A. evolving an acceptable revenue sharing formula
- B. maintaining the fiscal supremacy of the central government
- C. ensuring equity in the sharing of fiscal responsibilities
- D. evolving an acceptable wage for public servants.

25. One way of controlling deflation is by

- A. decreasing wages
- B. deficit financing
- C. contractionary monetary policy
- D. rigid fiscal policy

26. In computing national income, transfers are excluded because

- A. they are received only by the poor
- B. they are not payment for productive activities
- C. the figures reduce the size of national income
- D. it is difficult to get the exact figure

27. The price index is calculated as

- A.  $\frac{\text{base year price}}{\text{current price}} \times \frac{100}{1}$
- B.  $\frac{\text{weighted price}}{\text{current price}} \times \frac{100}{1}$

C.  $\frac{\text{current year price}}{\text{base year price}} \times \frac{100}{1}$

D.  $\frac{\text{current price}}{\text{weighted price}} \times \frac{100}{1}$

28. The rural areas of West Africa Countries lack industries because

- A. rural people are not meant to work in industries
- B. rural people are uneducated
- C. of inadequate infrastructure
- D. of low population density

29. Land is often different from other factors of production because it

- A. is a free gift of nature
- B. constitutes one-third of the entire world
- C. has different grades
- D. is owned by

30. The situation where government revenue in a fiscal year is less than its expenditure is referred to as

- A. budget deficit
- B. balanced budget
- C. budget surplus
- D. budget

31. The comparative cost doctrine of international trade means specialization in producing according to

- A. absolute cost advantage
- B. absolute cost disadvantage
- C. comparative cost disadvantage
- D. comparative cost advantage

32. A form of tax which the poor pay higher than the rich is known as

- A. regressive tax
- B. backward tax
- C. oppressive tax
- D. retrogressive tax

33. A situation whereby Government Revenue is less than government expenditure is referred to as

- A. budget deficit
- B. balanced budget
- C. budget statement
- D. unfavourable budget

34. One of the instruments for the protection of infant industries is the

- A. price control board
- B. open market operation
- C. tariff



D. Multiplier

35. Which of the following is not a function of an insurance company?

- A. mobilization of funds through premiums
- B. encouragement of saving habits through life assurance
- C. collection of deposits from the public
- D. encouragement of investment by security of capital

36. A father is three time as old as his son. 10 years' time, he will be twice as old as his son. How old is the father now.

- A. 30years
- B. 50years
- C. 70years
- D. 40years

37. The sum of the 20 terms of an A.P. 14, 9, 4, --- is?

- A. 650
- B. 770
- C. 54
- D. 720

38. Solve the equation  $2^{2x} - 10x2^x + 16 = 0$

- A. 0 or 1
- B. 1 or 3
- C.  $\frac{1}{2}$  or -3
- D. 2 or 4

39.  $A = \pi r(h^2 + r^2)^{1/2}$  Make h the subject of the formula

A.  $\sqrt{\frac{A^2\pi - 2r^2}{\pi r^2}}$

B.  $\frac{A}{\pi r} \left(1 - \frac{2\pi r^2}{A}\right)^{\frac{1}{2}}$

C.  $\frac{A^2}{\pi r} \left(1 - \frac{2\pi^2 r^2}{\pi}\right)^{\frac{1}{2}}$

D.  $\pi r^2 \left(1 - \frac{2\pi^2 r^2}{A^2}\right)^{\frac{1}{2}}$

40. Three angles of a hexagon are each  $x^\circ$ , the other three are each  $2x^\circ$ . Find x

- A.  $20^\circ$
- B.  $40^\circ$
- C.  $60^\circ$
- D.  $80^\circ$

41. If  $R = \begin{pmatrix} 3 & 1 \\ 2 & 5 \end{pmatrix}$  and  $B = \begin{pmatrix} 5 & 2 \\ -2 & 5 \end{pmatrix}$  find RB

- A.  $\begin{pmatrix} 13 & 10 \\ 0 & 24 \end{pmatrix}$
- B.  $\begin{pmatrix} 17 & 10 \\ 20 & 24 \end{pmatrix}$
- C.  $\begin{pmatrix} 13 & 10 \\ 24 & 20 \end{pmatrix}$
- D.  $\begin{pmatrix} 17 & 10 \\ 0 & 24 \end{pmatrix}$

42. X varies directly as t and inversely as the square of y. if  $x = \frac{9}{4}$  when  $t = 3$  and  $y = 4$  find x when  $t = 5$  and  $y = 2$

- A. 12
- B. 1
- C. 16
- D. 17

43. If  $\frac{C}{P} = \frac{1}{6}$ , find the value of r

- A. 1
- B. 3
- C. 5
- D. 6

44. A number is selected at random from 0 - 20, what is the probability that the number is an odd prime?

- A.  $\frac{8}{12}$
- b.  $\frac{1}{3}$
- c.  $\frac{2}{7}$
- d.  $\frac{5}{21}$

45. In how many ways can the word COMMISSION be arranged?

- A. 907200
- B. 3628800
- C. 453600
- D. 226800

46. A dice is rolled 240 times and the result depicted in the table below

No	1	2	3	4	5	6
Frequency	30	43	54	40	41	32

If a pie chart is constructed to represent the data, the angle corresponding to 4 is:

- A.  $10^\circ$
- B.  $16^\circ$
- C.  $40^\circ$
- D.  $60^\circ$

47. If  $x = (n + 1, n = 0, 2, 3)$  and  $y = (N + 1 : n = 2, 3, 5)$

- a. (1,3)
- b. (5, 10)
- c. ( $\emptyset$ )
- d. (4, 6)

48. A man paid  $r$  naira per hour for normal work and double rate for overtime. If he does a 35 hours per week which includes 9 hours of overtime, what is his weekly earning in naira?

- A.  $r(35+q)$
- B.  $q(35r-q)$
- C.  $q(35+r)$
- D.  $r(35r-q)$

49. Given the universal set  $U=(1,2,3,4,5,6)$  and the sets  $P=(1,2,3,4)$ ,  $Q=(3,4,5)$  and  $R=(2,4,6)$ . Find  $P \cup (Q \cap R)$

- A.  $\{4\}$
- B.  $\{1,2,3,4\}$
- C.  $\{1,2,3,5,6\}$
- D.  $\{1,2,3,4,5,6\}$

50. A trader bought goats for ₦4,000 each. He sold them for ₦180,000 at a loss of 25%. How many goats did he buy?

- A. 36
- B. 45
- C. 84.7
- D. 41.4

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## ANSWERS TO 2012/2013 AAU QUESTIONS

- 1. A 2. B 3. A 4. C 5. C 6. B 7. A 8. C 9. B
- 10. D 11. D 12. A 13. A 14. D 15. D 16. C
- 17. A 18. D 19. B 20. D 21. A 22. C 23. C
- 24. C 25. B 26. B 27. C 28. C 29. A 30. A
- 31. D 32. A 33. A 34. C 35. C 36. A 37. B
- 38. B 39. - 40. D 41. A 42. B 43. B 44. B
- 45. D 46. D 47. C 48. A 49. B 50. -

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# 2013/2014 AAU POST UMTE QUESTIONS

## ANSWER ALL QUESTIONS

**TIME ALLOWED:** 1 HOUR

**Instruction:** Choose the word opposite in meaning to the underlined words

1. The measures that were introduced to accelerate the process of national development have in actual fact \_\_\_\_\_ it.

- A. accentuated
- B. retarded
- C. Promoted
- D. neutralized
- E. Revoked

2. I thought that the comments made by the secretary were quite innocuous but the chairman considered them \_\_\_\_\_.

- A. Polite
- B. inappropriate
- C. Antagonistic
- D. unnecessary
- E. Harmful

3. Bola was vocal in protesting against the high-handedness of the police unlike Solo who was \_\_\_\_\_.

- A. Mute
- B. Shouting
- C. Arguing
- D. Sober
- E. Adamant

4. The rather insignificant effort he made yielded', result

- A. Exorbitant
- B. absolute
- C. Unimaginable
- D. prohibitive
- E. Tremendous

5. Ibrahim's flamboyant lifestyle contrasts sharply with Aminu's attitude.

- A. Austere
- B. ostentatious
- C. Serious
- D. lavish
- E. severe

**Choose the appropriate answer from the option given below**

6. Which of the following does not have fixed rate of dividend?

- A. Participatory preference
- B. Cumulative preference shares
- C. Ordinary shares
- D. Preference shores

7. Under the Nigeria structural adjustment programme the market for agriculture commodities in Nigeria has been placed under

- A. The marketing boards
- B. Private investors and individuals
- C. The river basin authorities
- D. The commodity boards

8. Under the ECOWAS agreement, a Nigeria can enter Ivory Coast without a visa for

- A. 30 days
- B. 60 days
- C. 90 days
- D. 120 days

9. Which of the following is an indirect tax?

- A. Personal income tax
- B. Capital gains tax
- C. Value Added tax
- D. Companies income tax
- E. Petroleum profit tax

10. In Nigeria, during the last financial year, which of the following sources of tax recorded the highest growth?

- A. Excise Duty
- B. Customs duty
- C. Service tax
- D. all of the above
- E. None of the above

11. Which of the following nations is not part of the West Africa Gas Pipeline Project?

- A. Ghana
- B. Togo
- C. Nigeria
- D. Benin Republic
- E. Central Africa Republic

12. Which Country stands at the top of Human Development Index HDI ranking of 169 Nations in the HDI?

- A. Norway
- B. Nigeria
- C. Australia
- E. New Zealand
- E. U.S.A

13. Which of the following is an economic activity?

- A. Attending a town's meeting
- B. A visit to the stadium
- C. Payment of school fees
- D. Arresting a petty thief

14. In a capitalist system, the means of production are owned and controlled by

- A. The government
- B. Politicians
- C. Private individuals
- D. the workers

15. Mixed economy refers to a system in which the means of production are controlled by

- A. Private enterprise and the government
- B. private individuals
- C. The government only
- D. The workers and businessmen.

16. An economic good is described as a good which

- A. Yields utility and commands a price
- B. is useful and occupies a space
- C. is in high demand and transferable
- D. Has unlimited supply

17. The concept of opportunity cost is important to the firm because it

- A. Determine the price of the firm's product
- B. Increase the level of output of the firm
- C. Leads to maximum satisfaction of the consumers
- D. Guides firms in allocating resources

18. As a firm expands, it enjoys some advantages called

- A. Variable proportions
- B. Diminishing marginal returns
- C. Internal economics of scale
- D. Decrease returns to scale

19. Division of labour is limited by

- A. The size of the market
- B. The productivity of capital
- C. Cost of production
- D. The factors of production.

20. An entrepreneur is likely to make more profits when

- A. Expenditure is more than revenue
- B. Competitors charge lower prices
- C. Cost per unit output falls
- D. Quantity of output reduces.

21. The centre piece of Nigeria's Foreign Policy has remained

- A. Asia
- B. Europe
- C. Africa
- D. America

22. Territory and Sovereignty are characteristics of \_\_\_\_\_

- A. Local government
- B. Africa
- C. Executive
- D. State

23. An appropriate bill is a

- A. State creation bill
- B. Private member bill
- C. State adjustment bill
- D. Monetary bill

24. Which one of these States was a state of emergency declared by President Goodluck Jonathan recently?

- A. Kebbi
- B. Borno
- C. Kano
- D. Sokoto

25. Mono-citizenship is

- A. membership of a state
- B. membership of a singular state
- C. membership of a multiple state
- D. Statelessness

26. A state is best described as

- A. A demographic entity
- B. a geographical entity
- C. A sovereign political entity
- D. An international entity.

27. Issue in the Exclusive list are the sole preserve of the

- A. Federal Government
- B. State
- C. Local government.
- D. all of the above

28. \_\_\_\_\_ is the Head of a Presidential System of government?

- A. Prime Minister
- B. Queen
- C. Head of the Executive
- D. Head of a presidential committee

29. Political parties mobilize the support of the electorate by

- A. Promoting violence
- B. Campaigning

- C. Rigging elections
- D. Encourage coup d'états
- E. Making laws

30. The commonwealth is
- A. An economic organization
  - B. Made up of all independent ex-colonies of Britain
  - C. Made up of all countries who are friendly with Britain
  - D. Made up of independent European countries
  - E. Made up of independent

31. African countries who were ex-colonies of Britain. The primary purpose of the state is to
- A. Establish a system of law and order
  - B. Train people to become good citizens
  - C. Eater for all the needs of the citizens
  - D. Ensure the self-sufficiency of its people
  - E. Ensures that its people enjoy absolute freedom

32. The following factors favoured the introduction of indirect rule in Nigeria except the
- A. Shortage of manpower
  - B. Shortage of funds
  - C. Existence of a system of taxation
  - D. Existence of educated elites
  - E. Existence of organized traditional political systems.

33. A political concept that is composed of the attitudes, beliefs, emotions and value of a society is called political
- A. Culture
  - B. Single transferable vote
  - C. Authority
  - D. Socialization
  - E. power

34. All the following were frontline fighters for Nigeria's independence except
- A. Obafemi Awolowo
  - B. Nnamdi Azikiwe
  - C. Lateef Jakande
  - D. Aminu Kano
  - E. Herbert Macaulay

35. It is argued that most of the new state of Africa cannot remain faithful to the doctrines of non-alignment mainly because of \_\_\_\_\_
- A. Corruption
  - B. Ethnic problem

- C. Bad leadership
- D. Poor economy
- E. Illiteracy

36. ATB bank had shares to sell to the general public of 50 kobo at ₦5.50 per share. A man invested a total of ₦132, 660 on the shares. How many shares did he buy?
- A. 24120
  - B. 13220
  - C. 101210
  - D. 9140

37. A cup of beans costs p kobo How many cups can be bought with q naira?
- A.  $100q/p$
  - B.  $q/p$
  - C.  $p/q$
  - D.  $p/100q$

38. An equilateral triangle of sides 13cm, 13cm, 13cm is inserted in a circle. What is the radius of the circle?
- A. 15 cm
  - B.  $7\frac{1}{24}$  cm
  - C. 8 cm
  - D. 7.5 cm

39. Find the tax on an income of ₦20,000 if no tax is paid on the first ₦10,000 on the next ₦5,000 radius of the circle?
- A. 525
  - B. 459
  - C. 212
  - D. 981

40. One-seventh of a number is 51. What will be 64% of that number?
- A. 248.12
  - B. 228.48
  - C. 238.24
  - D. 198.36
  - E. None of the above

41. If the product of two successive positive integers is 7482 which is the greater integer?
- A. 87
  - B. 82
  - C. 84
  - D. 89
  - E. None of the above

42. The Salary of an officer increase every year by 20% His salary in the year 2001 was ₦26, 640. What was his salary?

- A. ₦20, 000
- B. ₦19, 028
- C. ₦18, 500
- D. ₦18, 840
- E. ₦18,350

43. 3 chairs and 2 tables cost ₦700 while 5 chairs and 3 tables cost ₦1110. What is the cost of 2 tables and 2 chairs?

- A. ₦300
- B. ₦350
- C. ₦450
- D. ₦600
- E. ₦650

44. Calculate the amount if ₦450 is invested for  $1\frac{1}{2}$  years at 8% per annum.

- A. ₦54
- B. ₦504
- C. ₦540
- D. ₦50.4

45. What is the sum of the first eleven terms for an arithmetic sequence if the first term is 2, and the common difference is 3?

- A. 187
- B. 157
- C. 200
- D. 197

46. Simplify  $\left(\frac{1}{3} + \frac{2}{5} + \frac{4}{5}\right) + \left(\frac{7}{9} - \frac{2}{3}\right)$

- A.  $\frac{2}{15}$
- B.  $\frac{11}{12}$
- C.  $\frac{11}{49}$
- D.  $\frac{74}{45}$

47. Express 263,000,000 in standard form.

- A.  $23.6 \times 10^8$
- B.  $2.63 \times 10^8$
- C.  $26.3 \times 10^8$
- D.  $263, 000, 000 \times 10^8$

48. Convert 12410 to a number in base eight.

- A.  $471_3$
- B.  $174_8$
- C.  $714_8$
- D.  $417_8$

50. Solve the linear equation,

$$4x + 3 = 3x + 12.$$

- A.  $x=9$
- B.  $x=36$
- C.  $x=-9$
- D.  $x= 15$

## ANSWERS TO 2013/2014 AAU QUESTIONS

1. B 2. C 3. A 4. E 5. A 6. D 7. A 8. C 9. C  
 10. D 11. C 12. A 13. C 14. C 15. A 16. A  
 17. C 18. C 19. A 20. C 21. C 22. D 23. D  
 24. B 25. B 26. C 27. A 28. C 29. B 30. B  
 31. A 32. D 33. A 34. C 35. D 36. A 37. A  
 38. D 39. A 40. B 41. E 42. C 43. D 44. B  
 45. A 46. d 47. B 48. B 49. A 50. B

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# 2014/2015 AAU POST UMTE QUESTIONS

**Answer all questions**

**Time Allowed:** 1 hour

**Instruction: choose the appropriate from the option given below.**

1. The super eagle football team can favourably compete \_\_\_\_\_ the Argentina

- A. From
- B. for
- A. by
- D. between
- E. with

2. A \_\_\_\_\_ is a doctor that cares for the health of children

- A. Surgeon
- B. midwife
- C. Gynecology
- D. consultant
- E. Padiatrician

**From the letter A-D, choose the word nearest in meaning to the underlined word**

3. The inadequacy of transport facilities manifest itself in rising fares and irregular schedules

- A. Changes
- B. operators
- C. Timetables
- D. flight

4. The tailor was usually somewhat irascible.

- A. Unwholesome
- B. wholesome
- C. Ill-tempered
- D. illegitimate

5. I have every reason to deplore the outcome of project

- A. fight over
- B. comply
- C. regret
- D. condemn

6. Determine the equilibrium price and quantity from the equation:  $Q_d = 110 + 20p$

- A. 6.40
- B. 7.40
- C. 8.40
- D. 9.40

7. A tax that takes an increasing fraction of income goes down is known as \_\_\_\_.

- A. Proportional Tax
- B. regressive tax
- C. Restrictive tax
- D. Progressive tax

8. Which of the following is sets fully represent factor of production?

- A. Sunlight, machinery, man, land
- B. Land, labour, capital, enterprise, technology
- C. capital , technology, ideas, market, land
- D. Land, water, weather
- E. Money, market, middlemen

9. Who define economics as the study of the mankind in the ordinary business of life?

- A. Alfred Marshal
- B. David Ricardo
- C. Adams Smith
- D. Professor Lionel Robbins

10. Price can be defined as

- A. Rate of exchange
- B. Medium of exchange
- C. Cost of production
- D. Standard of living

11. The motives for holding money for investing in security is referred to as

- A. Transaction
- B. speculative
- C. Accumulation
- D. deflationary

12. The practice of selling goods overseas and often below the cost of production is known as

- A. Retailing
- B. dumping
- C. internal trade
- D. advertising
- E. export

13. The summation of all the individual demands in a given market or country is known as

- A. Individual demands
- B. Market schedule
- C. Market demands
- D. Aggregate schedule

14. If the coefficient of demands is less than one, then demands

- A. is elastic
- B. is inelastic
- C. is perfectly elastic
- D. Has unitary elasticity

15. The point at which the consumption spending of individual or families is equal to their level of disposable income is called

- A. Equilibrium point
- B. Breakeven point
- C. Income and consumption point
- D. Intersection point

16. The average propensity to consume for an economy with Y as total income and C as total expenditure on consumption is

- A.  $APC = Y - C$
- B.  $APC = Y + C$
- C.  $APC = \frac{Y}{C}$
- D.  $APC = \frac{C}{Y}$

17. The transformation curve slope indicates the

- A. Opportunity cost of a producing one commodity for another
- B. Opportunities cost of producing two commodities at a time
- C. Scale of the plant to other investors
- D. Decrease in the cost of

18. When a change in price does not affect the quantity demanded of a commodity, the price elasticity of demand is

- A. Fairly inelastic
- B. Infinitely inelastic
- C. Perfectly inelastic
- D. Unitary elastic

19. Production is complete when

- A. Goods are produced in factories
- B. Goods are sold to wholesaler
- C. Prices are fixed for goods and services
- D. Goods and services finally reach the consumer

20. When the import of a commodity is limited to definite quantity by using a trade control method, this is known as \_\_\_\_\_.

- A. Tariffs
- B. Quotas
- C. Exchange
- D. Devaluation

21. A political system which empowers the leaders with the ultimate responsibility to execute laws is \_\_\_\_\_.

- A. parliamentarianism
- B. Presidentialism
- C. dictatorship
- D. autocracy

22. The first political party in Nigerian is

- A. Action group
- B. National party of Nigeria
- C. Nigerian national Democratic Party
- D. People's redemption party

23. The right of citizens to participate in the affairs of government of their country is called

- A. Economy right
- B. Civil right
- C. Political right
- D. Social

24. The prime minister is the head of which type of government?

- C. Ministerial system of government
- B. Prime ministerial system of government
- C. The presidential system of government
- D. The parliamentary system of government

25. In the study of government, public administration covers the

- A. Army, prison officers and the police force
- B. Civil service, public corporations and local government
- C. Ministries of education, health and agriculture
- D. Schools, hospital and health centres

26. To prevent dictatorship, tyranny and guarantee civil liberty and good governance, it has been advocated that the three organs of government should \_\_\_\_\_ and \_\_\_\_\_.

- A. Separate and rigid
- B. Distinct and rigid
- C. Separate and loose
- D. Separate and distinct

27. Nelson Mandela, the prisoner who turned president died on .....

- A. January 6<sup>th</sup> 2014
- B. November 20<sup>th</sup> 2013
- C. December 6<sup>th</sup> 2013
- D. January 5<sup>th</sup> 2014

28. The currency used in \_\_\_\_\_

- A. Dinar
- B. Piala
- C. Ruple
- D. Gaborone

29. The transfer of authority to local government is known as

- A. Demarcation
- B. Delegation
- C. Fragmentation
- D. Fusion
- E. Devolution

30. An indispensable aspect of constitution of a democratic state is:

- A. presidentialism
- B. Parliamentary services
- C. Sociology ideology
- D. Fundamental human rights

31. The rule of law refers to the principles of

- A. Legality and impartiality
- B. The supreme powers of rulers
- C. The immunity of judges from legal actions
- D. the orderly execution of government policies

32. In which of the following systems of government are ceremonial and executive powers usually fused

- A. parliamentary
- B. presidentialism
- C. Collegial
- D. confederal

33. One of the major disadvantages of a two-party system is that it \_\_\_\_\_

- A. Does not allow citizens to participate in politics
- B. Divides the country into fractions
- C. Creates two countries
- D. Stifles public opinion

34. In the federation of Nigeria, states are equally represented in the \_\_\_\_\_.

- A. Senate
- B. House of representative
- C. Judiciary
- D. National population commission

35. Governmental refers to all the following except \_\_\_\_\_

- A. An institution of the state

B. The process of ruling a political community

C. The exercise of power and authority

D. The activities of decision – makers

E. The act or civil disobedience

36. What is CLXII?

- A. 173
- B. 150
- C. 119

37. The score of 16 student in a mathematics test are 65, 65, 55, 60, 60, 65, 60, 70, 75, 65, 70, 60, 65, 60, 70. what is the sum of the median and modal scores?

- A. 125
- B. 130
- C. 140
- D. 150
- E. 137.5

38. A man invested a total of ₦50,000 in two firms, if their fire sprays dividends of 6% and 8% respectively how much did he invest at 8% if he totally yield is ₦3,700

- A. ₦15,000
- B. ₦29,00
- C. ₦21,400
- D. ₦27,800
- E. ₦35,000

39. The cost of production of an article is made up as follows: labour ₦70; power, ₦15; materials ₦30; and miscellaneous ₦5. Find the angle of the sector representing labour in a pie chart.

- A.  $210^\circ$
- B.  $105^\circ$
- C.  $175^\circ$
- D.  $150^\circ$
- E.  $90^\circ$

40. A simple interest on a loan of ₦1,000 is increased from 5% to  $5\frac{1}{2}\%$ . What would be the interest for a period of 3 months?

- A. ₦13.75
- B. ₦11.50
- C. ₦8.75
- D. ₦2.25
- E. ₦1.25

41. If  $x^2 - xy - 6y^2 = 0$ , find the value of  $xy$

- A. 3 or -4
- B. 2 or -3
- C. -2 or 3

- D. -2 or -3  
E. -3 or 4

42. Solve the equation  $2x^2 - 3x - 1 = 0$

- A. 1.78 or -0.28  
B. -1.52 or - 0.35  
C. -1.52 or - 0.35  
D. -1.78 or 0.29  
E. 1.39 or -0.34

43. The sum of three consecutive terms of an A.P is 18, and their product is 120. Find the terms

- A. 2,6,10  
B. 3,6,8  
C. 4,6,8  
D.6,8,10  
E.1.39 or - 0.34

44. A final examination requires a student to answer four out of six students. In how many ways can he do this?

- A. 80  
B. 20  
C. 30  
D. 45  
E. 15

45. If the mean of five consecutive numbers is 30, find the largest of the numbers

- A. 32  
B. 30  
C. 36  
D. 34  
E. 15

46. Solve the x if  $8^x=0.25$

- A. 2  
B. -1.5  
C. 3.2  
D. 3  
E.  $-\frac{2}{3}$

49. In class of 40 students,  $\frac{1}{4}$  of them failed a mathematics test, what percentage of the students passed the test

- A. 15%  
B. 75%  
C. 34%  
D. 50%  
E. 60%

50. A worker's present salary is ₦24,00 per annum, increment is 10% of his basic salary, what would be his annual Salary at the beginning of the third year

- A. ₦28,000  
B. ₦29,040  
C. ₦31,200  
D. ₦31,944  
E. ₦32,400

## ANSWERS TO 2014/2015 AAU POST UTME QUESTIONS

1. E 2. E 3. C 4. C 5. C 6. \* 7. \* 8. \* 9. A  
10. A 11. B 12. B 13. C 14. B 15. C 16. D  
17. A 18. C 19. D 20. B 21. C 22. C 23. C  
24. D 25. B 26. D 27. D 28. A 29. E 30. A  
31. A 32. B 33. B 34. A 35. E 36. \* 37. \*  
38. \* 39. \* 40. \*

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# 2015/2016 AAU POST UMTE QUESTIONS

## Answer all Questions

**Time Allowed:** 1Hour

### Give the interpretation of these idiomatic expressions

- "Do not bite the finger that fed you"
  - not to chop the finger that you use to eat
  - licks your finger with care.
  - doesn't reward good for evil
  - doesn't cut your finger when eating
- "Make hay while the sun shines".
  - makes bad use of good time.
  - makes good use of opportunities.
  - makes good use of a bad condition.
  - destroy your chances

### Choose the correct option from the alternatives provided.

- Which is the odd one out?
  - weak
  - has
  - heavy
  - clever
- Water the floor please: What class of word does the underlined illustrate.
  - preposition
  - noun
  - verb
  - adjective

### Complete the following statements

- It is high time you \_\_\_\_\_ smoking.
  - stopped
  - stop
  - should stop
  - must stop
- To promote justice in a state, judges must
  - belongs to the ruling party
  - punishes people who oppose them
  - enjoys security of tenure of office
  - not socialize with people
- A multi-party system always leads to a
  - unitary government.
  - dictatorial government.
  - coalition government

- parliamentary
- Public opinion can be expressed through?
    - census
    - general strike
    - socialization
    - compromise
  - Public corporations are set up by \_\_\_\_\_.
    - board of directors
    - the minister
    - workers in the corporation
    - giving alms to the poor
  - Which of the following is not a duty of a citizen?
    - obedience to the law
    - payment of taxes
    - service of the nation
    - giving alms to the poor
  - The official language of the commonwealth is
    - French
    - Spanish
    - Dutch
    - English
  - What type of legislature is Nigeria running at the federal level?
    - national assembly
    - unicameral
    - bicameral
    - senate
  - Some pre-colonial West African governments were democratic because of the existence of \_\_\_\_\_.
    - Powerful traditional rulers
    - Age grades
    - Religious institutions
    - checks and balances
  - In the Pre-colonial West Africa, the kingdoms of the Asante, Wolof, and the Hausa were examples of.
    - State
    - Union
    - Country
    - Nation
  - A constitutionally created account in which all public revenue is paid is called A. provident fund

- B. social security fund
- C. accounts fund
- D. consolidated fund

16. Which of the following countries popularized the use of the indirect Rule by the British?

- A. Nigeria
- B. Ghana
- C. Sierra-Leone
- D. Gambia

17. One demerit of a one-party system is that it encourages \_\_\_\_\_.

- A. Red-tapism
- B. Dictatorship
- C. Democracy
- D. Development.

18. In a monarchy, the head of state is usually \_\_\_\_\_

- A. military ruler
- B. the chief justice
- C. the speaker of the legislature
- D. a hereditary ruler

19. A person representing his country in a fellow Common Wealth Country is called

- A. a knight
- B. a representative
- C. a high commissioner
- D. an attached

20. The Industrial Revolution in Europe resulted in

- A. Socialism
- B. Communalism
- C. Aristocracy
- D. Capitalism

21. The expenditure of a firm on goods and services for the expansion of its productive capacity is known as \_\_\_\_\_

- A. income
- B. investment
- C. savings
- D. profit

22. Development plans in Nigeria have deviated from their targets due to \_\_\_\_\_

- A. lack of manpower
- B. political instability
- C. high population growth
- D. inadequate land

23. The stability of Nigerian economy depends mainly on the export price of

- A. groundnut
- B. cotton
- C. cocoa
- D. mineral oil

24. Which of the following countries is a major trading partner of Nigeria?

- A. high tariff
- B. Canada
- C. Japan
- D. Germany

25. The instruments used in many countries to restrict imports include

- A. high tariff
- B. price index
- C. excise duties
- D bank rates

26. When price elasticity of demand is equal to 0.4, demand is said to be unitary elastic

- A. Inelastic
- B. Elastic
- C. unitary elastic
- D perfectly elastic

27. In the money market; money can only be borrowed for (Incomplete question)

- A. project
- B. public utilities

28. Deflation can be controlled by increases in (Incomplete question)

- A. the bank rate the budget deficit

29. Occupational distribution of population mainly influenced by factors (Incomplete question)

- A. geographical factors
- B. the budget deficit

30. Gross National Product [GNP] less depreciation is known as

- A. Gross Domestic Product
- B. National Income
- C. Fixed National Income
- D. Net National Product

31. FDI means \_\_\_\_\_.

- A. Foreign Diplomatic Initiative
- B. Foreign Diplomatic Investment
- C. Foreign Direct Investment
- D. Foreign Direct Initiative

32. \_\_\_\_\_ is usually called the father of central economic tradition.



- A. John Keynes
- B. John Baker
- C. Adam Smith
- D Lord Robbins.

33. In a regulated market, price is determined by

- A. consumers
- B. producers
- C. auction
- D. government

34. If AV - average of production, FC fixed cost of production, VC - variable cost of production, and IC - total cost of production then VC is:

- A. TC/FC
- B. FC+AC
- C. TC - FC
- D. TC I FC

35. An issue over which the centre and the state can exercise authority in a Federal system is \_\_\_\_\_.

- A. shared
- B. split
- C. exclusive
- D. concurrent
- E. exemplary

36. A professor's car uses fuel at the rate of 1 litre for every 5km travelled. When fuel was 25 kobo per litre. The professor used 15 worth of fuel for a certain journey. How long was the journey?

- A. 30km
- B. 33km
- C. 330km
- D. 399km

37. Convert  $124_{10}$  to a number in base eight.

- A.  $471_8$
- B.  $174_8$
- C.  $714_8$
- D.  $417_8$

38. Determine the value of x for which  $(x^2 -) > 0$

- A.  $z < -1$  or  $x > 1$
- B.  $-1 < x < 1$
- C.  $x > 0$
- D.  $x > - 1$

39. A father is 5 times as old as his, if the sum of their ages is 60 years. How old is the father?

- A. 25 years
- B. 35 years
- C. 45 years
- D. 50 years

40. There are 6 red balls and 7 blues balls in a basket. What is the probability of picking a red ball?

- A.  $\frac{6}{13}$
- B.  $\frac{7}{13}$
- C.  $\frac{6}{7}$
- D.  $\frac{7}{6}$

## ANSWERS TO 2015/2016 AAU POST-UTME QUESTIONS

1. C 2. B 3. B 4. C 5. A 6. C 7. C 8. B 9. B  
10. D 11. C 12. C 13. D 14. D 15. D 16. A  
17. B 18. D 19. C 20 D 21. B 22. B 23. D  
24. C 25. A 26. D 27. - 28. - 29. - 30. A  
31. C 32. C 33. D 34. A 35. D 36. C 37. B  
38. D 39. D 40. A

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